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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/620,420 07/17/2003 740756-2624 Minoru Miyazaki 9616 22204 EXAMINER 7590 04/07/2004 NIXON PEABODY, LLP LEE, CALVIN 401 9TH STREET, NW ART UNIT PAPER NUMBER SUITE 900 WASINGTON, DC 20004-2128 2825

DATE MAILED: 04/07/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
Office Action Summary	10/620,420	MIYAZAKI ET AL.	
	Examiner	Art Unit	Mr.J
	Lee Calvin	2825	<i>(</i> 40
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet wi	th the correspondence add	ress
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of the period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this con ANDONED (35 U.S.C. § 133).	nmunication.
Status			
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar	nce except for formal matt	ers, prosecution as to the	merits is
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-70 is/are pending in the application			
4a) Of the above claim(s) is/are withdraw	wn from consideration.		
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1-4,6-13,15-22,24-31,33-39,41-47,49</u>		e rejected.	
7) Claim(s) <u>5,14,23,32,40,48,57 and 66</u> is/are obj			
8) Claim(s) are subject to restriction and/o	r election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examine	er.		
10)⊠ The drawing(s) filed on <u>17 July 2003</u> is/are: a)	⊠ accepted or b)□ objec	ted to by the Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyar	ice. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	•		
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached	d Office Action or form PTC	D-152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:		119(a)-(d) or (f).	
1. Certified copies of the priority document		polication No	
2. Certified copies of the priority document3. Copies of the certified copies of the priority			Stane
application from the International Bureau	•	received in this inational c	olage
* See the attached detailed Office action for a list	* * * * * * * * * * * * * * * * * * * *	received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview S	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s	s)/Mail Date nformal Patent Application (PTO-	.152)
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>2-3</u> .	6) Other:		102)

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Docket: 740756-2624 MIYAZAKI et al.

OFFICE ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following are quotations of the appropriate paragraph of 35 U.S.C. 102(e) that forms the basis for the rejections under this section made in this Office action:

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-4, 6-13, 15-22, 24-31, 33-39, 41-47, 49-56, 58-65, and 67-70 are rejected under 35 U.S.C. 102(e) as anticipated by *Miyawaki et al (US 5,644,370)*.

Miyawaki et al discloses a method of manufacturing an active matrix type liquid crystal display device, comprising the steps of:

- forming over a substrate a thin film transistor comprising a crystalline silicon region and a gate electrode of silicon with a gate insulating film interposed there between [col. 7, ln.39]
- forming a first layer of TiN (titanium nitride) on the semiconductor region [col. 10]
- forming a second layer comprising aluminum on the first layer
- forming a third layer of TiN on the second layer
- and forming a pixel electrode comprising an ITO (indium tin oxide) film on the third layer

Allowable Subject Matter

3. Claims 5, 14, 23, 32, 40, 48, 57, and 66 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Miyawaki et al fails to teach the second layer comprises aluminum containing 1% silicon.

Any inquiry concerning this communication from the Examiner should be directed to *Calvin Lee* at (571) 272-1896 from 7:00 to 17:00 (Mon-Thu). If attempts to reach the examiner by telephone are unsuccessful, Art Unit 2825's Supervisory Patent Examiner *Matthew Smith* can be reached at (571) 272-1907

Any inquiry relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0596. The fax phones are (703) 872-9318 for regular communications and (703) 872-9319 for After-Final communications.

CL

April 4, 2004

CAPARED SMITH
SUPERCONDER PARENT EVANINER
SUPERCONDUCTOR PARENT EVANINER
SUPERCONDUCTOR PARENT EVANINER